

Figure 1

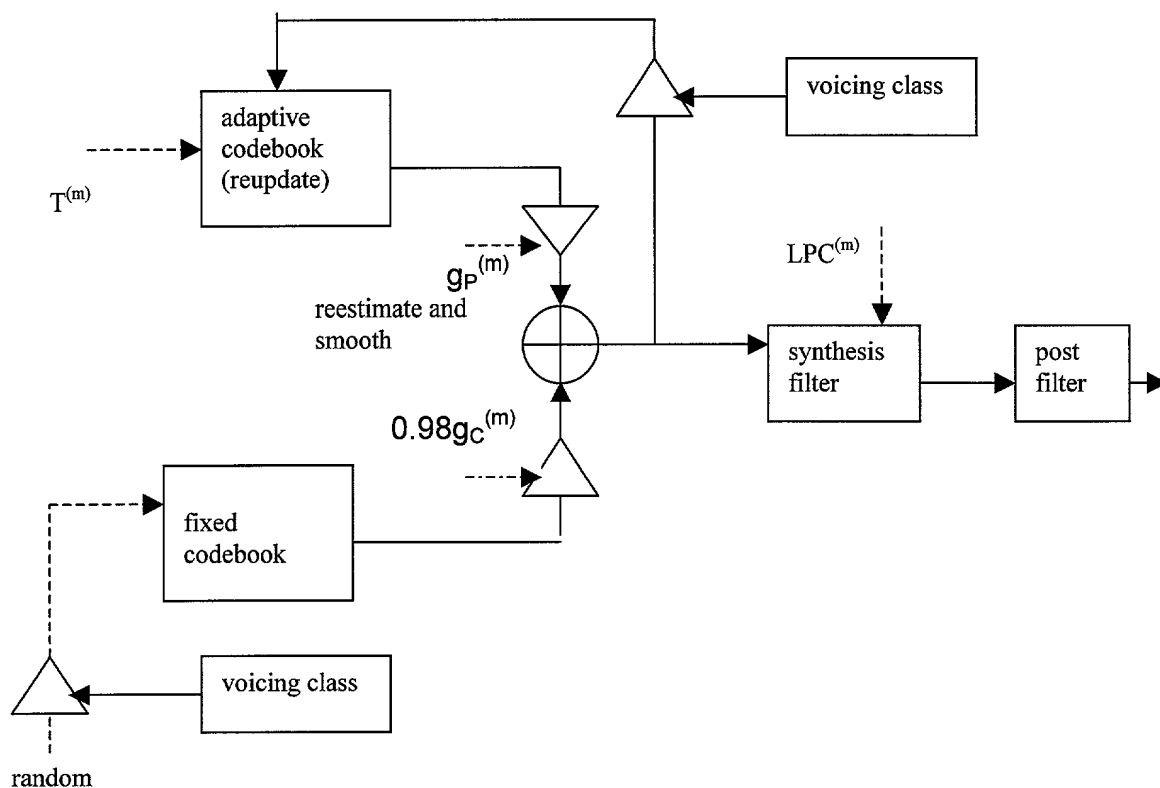
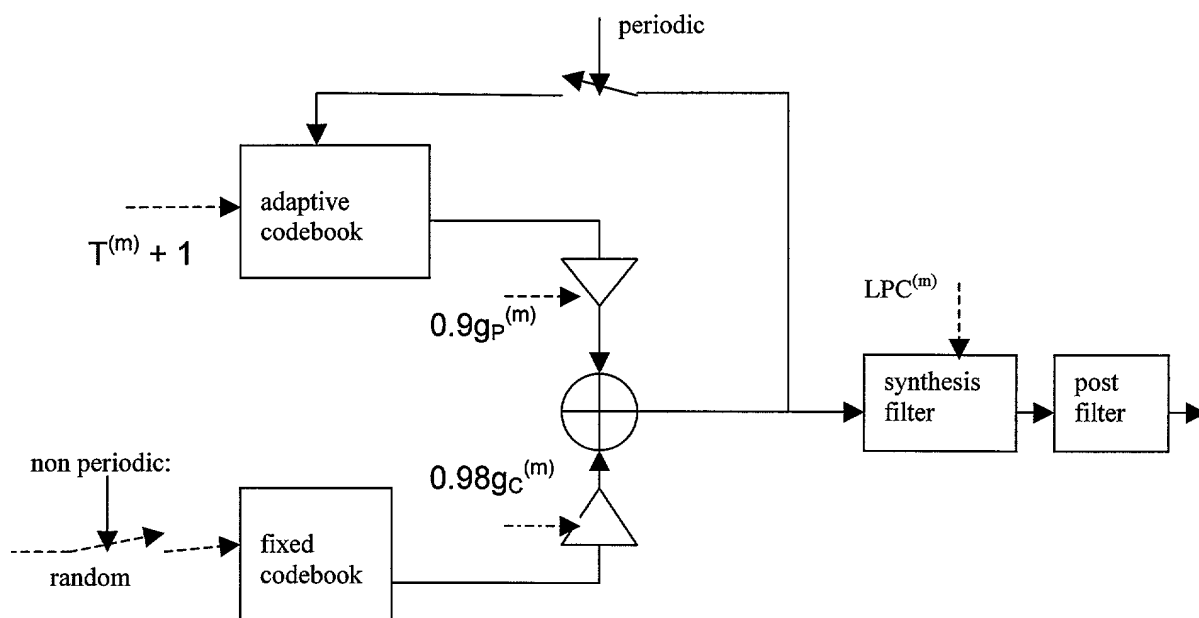


Figure 2 (prior art)



```

graph TD
    Input[INPUT SPEECH] --> Pre[PRE-PROCESSING]
    Pre --> LP[LP ANALYSIS QUANTIZATION INTERPOLATION]
    LP -. LPC INFO .-> Syn[SYNTHESIS FILTER]
    Syn --> Sum1((+))
    Pre --> Sum1
    Sum1 --> Pitch[PITCH ANALYSIS]
    Pitch --> CB[FIXED CB SEARCH]
    CB --> Sum2((+))
    Sum1 --> Sum2
    Sum2 --> Weight[PERCEPTUAL WEIGHTING]
    LP -. LPC INFO .-> Weight
    Weight --> Output[TRANSMITTED BITSTREAM]
  
```

FIG. 4

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graph LR
    Input1[ ] -- dashed --> FC[FIXED CODEBOOK]
    Input2[ ] -- dashed --> AC[ADAPTIVE CODEBOOK]
    FC --> GC[G_C]
    AC --> GP[G_P]
    GP -- feedback --> AC
    GC --> Sum((+))
    GP --> Sum
    Sum --> STF[SHORT-TERM FILTER]
    STF --> PP[POST-PROCESSING]
    PP --> Output[ ]
    PP -- feedback --> AC
```

Figure 5

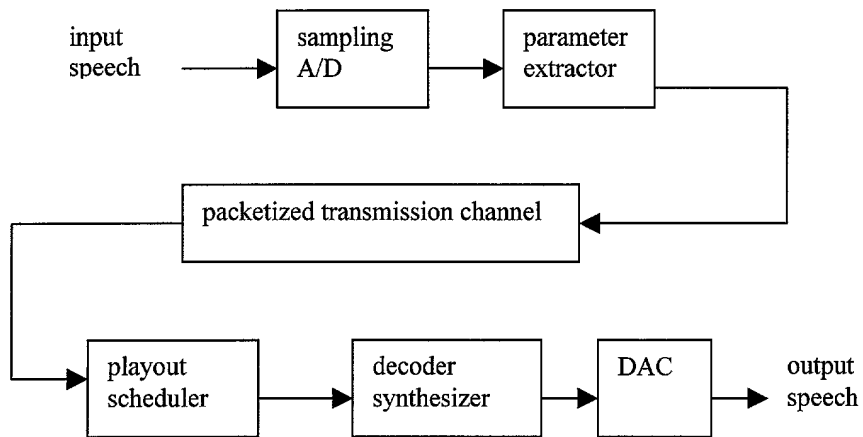


Figure 6

